

Building Thermal Insulation Market by Material (Glass Wool, Stone Wool, Plastic Foam), Application (Roof Insulation, Floor Insulation, Wall Insulation), Building Type (Residential, Non-Residential) & Region - Global Forecast to 2028

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Abstracts

The building thermal insulation market is poised for steady growth, with a projected value of USD 37.0 billion by 2028, exhibiting a robust CAGR of 4.8% from its 2023 value of USD 29.2 billion. The comfort of building residents is a priority in modern construction. An even and comfortable interior temperature can be sustained all year round with the aid of proper thermal insulation. Green building focuses on eco-friendly methods. Moreover, building thermal insulation subsequently reduces greenhouse gas emissions by lowering energy usage.

“Plastic foam segment is projected to be the fastest growing material of building thermal insulation, in terms of value, during the forecast period.”

The plastic foam segment is the largest application in the building thermal insulation market in terms of value, in 2022. Plastic foam is lightweight and flexible enough to be molded and sculpted to meet a variety of construction requirements. Improved plastic foam compositions with improved fire resistance and thermal characteristics are continuously being developed by manufacturers. Plastic foam has a competitive price point and strong thermal resistance (R-value) when compared to certain other insulation materials.

“Wall Insulation to be the fastest growing application for building thermal insulation market, in terms of value, during the forecast period”

The building thermal insulation market is segmented into wall insulation, floor insulation, and roof insulation based on application. The wall insulation application segment led the global building thermal insulation market, in terms of value, in 2022 due to its versatile properties. Enhanced weatherproofing and soundproofing, improved building's thermal performance while reducing its CO2 emission are some of the properties that fuel the demand for wall insulation in building thermal insulation market.

“Residential segment to be the fastest growing building type for building thermal insulation market, in terms of value, during the forecast period”

The residential building type dominates the building thermal insulation market due to many factors. The dominance is due to the extensive applications of building thermal insulation in residential construction. It finds wide use in residential buildings for insulating walls, floors, roofs, and basements. This is a favorably chosen material that contributes to energy efficiency, comfortable indoor conditions, and adherence to building codes because of its outstanding thermal insulating qualities, moisture resistance, and structural support. The building thermal insulation market is also becoming increasingly popular in the residential buildings because of changing industry standards and regulatory pressure.

“Europe was the largest building thermal insulation market in 2022, in terms of value.”

Europe held a dominant position in the building thermal insulation market in 2022, owing to the presence of significant players such as Kingspan Group PLC, BASF SE, Saint-Gobain SA, who have strengthened the region's standing in this industry. Europe has a significant market for building thermal insulation, primarily due to stringent building regulations emphasizing energy efficiency and insulation standards in construction practices across the region. These regulations have driven the widespread adoption of building thermal insulation in various building types, including residential, non-residential, and others.

In the meticulous process of determining and verifying market sizes for multiple segments and subsegments, extensive primary interviews were conducted. A breakdown of the profiles of the primary interviewees are as follows:

By Company Type: Tier 1 - 69%, Tier 2 - 23%, and Tier 3 - 8%

By Designation: - C-Level - 23%, Director Level - 37%, and Others - 40%

By Region: North America - 32%, Europe - 21%, Asia Pacific - 28%, South America - 7%, and Middle East & Africa - 12%,

The key market players illustrated in the report include Kingspan Group PLC (UK), Knauf Gips KG (Germany), Owens Corning (US), Rockwool A/S (Denmark), Saint-Gobain SA (France), BASF SE (Germany), Dow Inc. (US), Johns Manville Corporation (US), GAF Materials Corporation (US), CNBM Group Co., Ltd. (China), and Aspen Aerogels, Inc. (US).

Research Coverage

This report segments the market for building thermal insulation on the basis of material, application, building type, and region, and provides estimations for the overall value (USD Million) of the market across various regions. A detailed analysis of key industry players has been conducted to provide insights into their business overviews, products & services, key strategies, new product launches, expansions, and mergers & acquisition associated with the market for building thermal insulation.

Reasons to buy this report

This research report is focused on various levels of analysis — industry analysis (industry trends), market ranking analysis of top players, and company profiles, which together provide an overall view on the competitive landscape; emerging and high-growth segments of the building thermal insulation market; high-growth regions; and market drivers, restraints, opportunities, and challenges.

The report provides insights on the following pointers:

Analysis of key drivers (Stringent regulations to reduce green house gas emissions, Development of green buildings, Reduction in energy consumption and related cost, Rebates and tax credits, Stringent building energy codes), restraints (Fluctuation in prices of plastic foams, Availability of green insulation material), opportunities (High energy requirements), and challenges (Lack of awareness on building thermal insulation)

Market Penetration: Comprehensive information on building thermal insulation offered by top players in the global building thermal insulation market

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product launches in the building thermal insulation

Market Development: Comprehensive information about lucrative emerging markets — the report analyzes the markets for building thermal insulation across regions

Market Diversification: Exhaustive information about new products, untapped regions, and recent developments in the global building thermal insulation market

Competitive Assessment: In-depth assessment of market shares, strategies, products, and manufacturing capabilities of leading players in the building thermal insulation market

Impact of recession on building thermal insulation

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About

The report “Building Thermal Insulation Market by Material (Wool Insulation, Plastic Foams and Others) and Application (Roof, Wall and Floor) - Global Trends & Forecasts to 2020” defines and segments the building thermal insulation market with an analysis and forecast of the market size by value and volume.

The building thermal insulation market size in terms of value is projected to reach \$27.0 billion by 2020, at a CAGR of 3.5% between 2015 and 2020.

Key Players Building Thermal Insulation Market are:

BASF (Germany)

Johns-Manville Corporation (U.S.)

Kingspan Group Plc (Ireland)

Knauf Insulation (Germany)

Owens Corning (U.S.)

Paroc Group (Finland)

Building insulation is done by using the materials such as glasswool, mineral wool, expanded polystyrene, extruded polystyrene, polyurethane foams and other insulating products to insulate the roof, floors and walls of a building. The need for energy conservation, reduction in electricity bills, and emission reduction potential of building insulation are key factors driving the demand for the building insulation products.

One of the main market boosters for building insulation is the greenhouse gas emission reduction target set by many major countries. The Kyoto Protocol was adopted with the same reason in 1997 in Japan to fight with global warming. This protocol is one of the main reasons due to which different countries are going for building insulation to

achieve their greenhouse gas emission reduction targets.

Several countries and regional organizations including U.S. and European Union have adopted legislation on energy efficient buildings. These legislations are growing stricter day by day and are now covering developing world as well. Stringent energy efficiency regulations for buildings are driving the penetration of insulation in the overall building stock and also increasing the amount of insulation needed per building.

Building Insulation is the most cost-effective measure to combat climate change. Proper insulation decreases the heat flow and can reduce cooling demand by up to 75%. The study of building insulation market is important as it is very useful in climates that have a wide range of annual average temperatures and the market trend for different products varies with different geographical regions. This report not only provides a full estimate of the global building insulation market; it also gives a detailed analysis of their most critical micro-markets, which have remained unexplored so far.

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